IN THE CLAIMS:

Please add new Claims 21-24 and amend Claims 3, 4, 7, 8 and 16-20 to read as follows.

- 1. (Previously presented) An electron-emitting device comprising a pair of electric conductors disposed on a substrate and a pair of films composed chiefly of carbon and connected to said pair of electric conductors and disposed with a gap interposed therebetween, wherein said films contain therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium within the range of 1 mol% to 5 mol% in terms of the percentage to carbon.
- 2. (Previously presented) An electron-emitting device comprising a pair of device electrodes disposed on a substrate, an electrically conductive film connected to said pair of device electrodes and having a fissure between the pair of device electrodes, and a carbon film composed chiefly of carbon and formed in said fissure and on an area including said fissure and having in said fissure a gap of a width narrower than said fissure, wherein said carbon film contains therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium within the range of 1 mol% to 5 mol% in terms of the percentage to carbon.
- 3. (Currently amended) An electron source comprising a plurality of electron-emitting devices according to Claim 1 or 2 disposed on a substrate, and wirings

pair of electric conductors disposed on the substrate and a pair of films composed chiefly of carbon and connected to said pair of electric conductors and disposed with a gap interposed therebetween, wherein said films contain therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium within the range of 1 mol% to 5 mol% in terms of the percentage to carbon.

- 4. (Currently amended) An image forming apparatus comprising an electron source according to Claim 3, and an image forming member for effecting image formation by electrons emitted from said electron source colliding against it, the electron source comprising a plurality of electron-emitting devices disposed on a substrate, and wirings connected to said electron-emitting devices, each electron-emitting device comprising a pair of electric conductors disposed on the substrate and a pair of films composed chiefly of carbon and connected to said pair of electric conductors and disposed with a gap interposed therebetween, wherein said films contain therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium within the range of 1 mol% to 5 mol% in terms of the percentage to carbon.
- 5. (Previously presented) An electron-emitting device comprising a pair of electric conductors disposed on a substrate and a pair of films composed chiefly of carbon and connected to said pair of electric conductors and disposed with a gap interposed

therebetween, wherein said films contain therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium of 5 mol% or less in terms of the percentage of carbon.

- 6. (Previously presented) An electron-emitting device comprising a pair of device electrodes disposed on a substrate, an electrically conductive film connected to said pair of device electrodes and having a fissure between the pair of device electrodes, and a carbon film composed chiefly of carbon and formed in said fissure and on an area including said fissure and having in said fissure a gap of a width narrower than said fissure, wherein said carbon film contains therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium of 5 mol% or less in terms of the percentage to carbon.
- 7. (Currently amended) An electron source comprising a plurality of electron-emitting devices according to Claim 5 or 6 disposed on a substrate, and wirings connected to said electron-emitting devices, each electron-emitting device comprising a pair of electric conductors disposed on the substrate and a pair of films composed chiefly of carbon and connected to said pair of electric conductors and disposed with a gap interposed therebetween, wherein said films contain therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium of 5 mol% or less in terms of the percentage of carbon.

- 8. (Currently amended) An image forming apparatus comprising an electron source according to Claim 7, and an image forming member for effecting image formation by electrons emitted from said electron source colliding against it, the electron source comprising a plurality of electron-emitting devices disposed on a substrate, and wirings connected to said electron-emitting devices, each electron-emitting device comprising a pair of electric conductors disposed on the substrate and a pair of films composed chiefly of carbon and connected to said pair of electric conductors and disposed with a gap interposed therebetween, wherein said films contain therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium of 5 mol% or less in terms of the percentage of carbon.
 - 9. (Previously presented) An electron-emitting device, comprising:
 a carbon film composed chiefly of carbon; and
 an electrode electrically connected to the carbon film,

wherein the carbon film contains therein one or more kinds of elements selected from the group consisting of lithium, potassium, sodium, calcium, strontium, and barium of 5 mol% or less in terms of the percentage to carbon.

10. (Previously presented) An electron-emitting device, comprising: a carbon film composed chiefly of carbon; and an electrode electrically connected to the carbon film,

wherein the carbon film contains therein one or more kinds of elements selected from the group consisting of lithium, potassium, sodium, calcium, strontium, and barium of within the range of 1 mol% to 5 mol% in terms of the percentage to carbon.

11. (Previously presented) An electron source, comprising: a substrate;

a plurality of electron-emitting devices disposed on the substrate, each electron-emitting device comprising:

a carbon film composed chiefly of carbon, and
an electrode electrically connected to the carbon film,
wherein the carbon film contains therein one or more kinds of
elements selected from the group consisting of lithium, potassium, sodium, calcium,
strontium, and barium of 5 mol% or less in terms of the percentage to carbon; and
wirings connected to the plurality of electron-emitting devices.

12. (Previously presented) An electron source, comprising: a substrate;

a plurality of electron-emitting devices disposed on the substrate, each electron-emitting device comprising:

a carbon film composed chiefly of carbon, and an electrode electrically connected to the carbon film,

wherein the carbon film contains therein one or more kinds of elements selected from the group consisting of lithium, potassium, sodium, calcium, strontium, and barium of within the range of 1 mol% to 5 mol% in terms of the percentage to carbon; and

wirings connected to the plurality of electron-emitting devices.

13. (Previously presented) An image-forming apparatus, comprising: an image forming member; and an electron source, comprising:

a substrate;

a plurality of electron-emitting devices disposed on the substrate, each electron-emitting device comprising:

a carbon film composed chiefly of carbon, and
an electrode electrically connected to the carbon film,
wherein the carbon film contains therein one or more kinds of
elements selected from the group consisting of lithium, potassium, sodium, calcium,
strontium, and barium of 5 mol% or less in terms of the percentage to carbon; and
wirings connected to the plurality of electron-emitting devices.

14. (Previously presented) An image-forming apparatus, comprising: an image forming member; and

an electron source, comprising:

a substrate;

a plurality of electron-emitting devices disposed on the substrate, each electron-emitting device comprising:

a carbon film composed chiefly of carbon, and
an electrode electrically connected to the carbon film,
wherein the carbon film contains therein one or more kinds
of elements selected from the group consisting of lithium, potassium, sodium, calcium,
strontium, and barium of within the range of 1 mol% to 5 mol% in terms of the percentage
to carbon; and

wirings connected to the plurality of electron-emitting devices.

15. (Previously presented) An electron-emitting device, comprising:
a carbon film composed chiefly of carbon; and
an electrode electrically connected to the carbon film,

wherein one or more elements selected from the group consisting of lithium, potassium, sodium, calcium, strontium, and barium are contained in the carbon film in a rate of 1 mol% or more with respect to carbon.

16. (Currently amended) An electron source, comprising: a substrate;

a plurality of electron-emitting devices disposed on the substrate, each electron-emitting device being an electron-emitting device according to Claim 15; comprising:

an electrode electrically connected to the carbon film,

wherein one or more elements selected from the group consisting of

lithium, potassium, sodium, calcium, strontium, and barium are contained in the carbon

film in a rate of 1 mol% or more with respect to carbon; and

wirings connected to the electron-emitting devices.

17. (Currently amended) An image-forming apparatus, comprising: an electron source according to Claim 16 comprising:

a substrate,

a plurality of electron-emitting devices disposed on the substrate, each electron-emitting device comprising:

an electrode electrically connected to the carbon film,
wherein one or more elements selected from the group
consisting of lithium, potassium, sodium, calcium, strontium,
and barium are contained in the carbon film in a rate of 1
mol% or more with respect to carbon, and

wirings connected to the electron-emitting devices; and a phosphor.

18. (Currently Amended) An electron-emitting device, comprising:
a deposit composed chiefly of carbon including a graphite structure; and
an electrode electrically connected to said deposit,

wherein one or more elements selected from the group consisting of lithium, potassium, sodium, calcium, strontium, and barium are contained in the deposit.

19. (Currently amended) An electron source, comprising: a substrate;

a plurality of electron-emitting devices disposed on the substrate, each electron-emitting device being an electron-emitting device according to Claim 18 comprising:

a deposit composed chiefly of carbon including a graphite structure, and an electrode electrically connected to said deposit,
wherein one or more elements selected from the group consisting of potassium, sodium, calcium, strontium, and barium are contained in the deposit; and

wirings connected to the electron-emitting devices.

20. (Currently amended) An image-forming apparatus comprising:

an electron source comprising:

a substrate,

a plurality of electron-emitting devices disposed on the substrate, each electron-emitting device comprising:

a deposit composed chiefly of carbon including a graphite structure, and

an electrode electrically connected to said deposit,

wherein one or more elements selected from the group consisting

of potassium, sodium, calcium, strontium, and barium are

contained in the deposit, and

wirings connected to the electron-emitting devices; and according to Claim 19; and

a phosphor.

21. (New) An electron source comprising a plurality of electron-emitting devices disposed on a substrate, and wirings connected to said electron-emitting devices, each electron-emitting device comprising a pair of device electrodes disposed on the substrate, an electrically conductive film connected to said pair of device electrodes and having a fissure between the pair of device electrodes, and a carbon film composed chiefly of carbon and formed in said fissure and on an area including said fissure and having in said fissure a gap of a width narrower than said fissure, wherein said carbon film contains therein one or more kinds

of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium within the range of 1 mol% to 5 mol% in terms of the percentage to carbon.

- 22. (New) An image-forming apparatus comprising an electron source and an image forming member for effecting image formation by electrons emitted from said electron source colliding against it, said electron source comprising a plurality of electron-emitting devices disposed on a substrate, and wirings connected to said electron-emitting devices, each electron-emitting device comprising a pair of device electrodes disposed on the substrate, an electrically conductive film connected to said pair of device electrodes and having a fissure between the pair of device electrodes, and a carbon film composed chiefly of carbon and formed in said fissure and on an area including said fissure and having in said fissure a gap of a width narrower than said fissure, wherein said carbon film contains therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium within the range of 1 mol% to 5 mol% in terms of the percentage to carbon.
- 23. (New) An electron source comprising a plurality of electron-emitting devices disposed on a substrate, and wirings connected to said electron-emitting devices, each electron-emitting device comprising a pair of device electrodes disposed on the substrate, an electrically conductive film connected to said pair of device electrodes and having a fissure between the pair of device electrodes, and a carbon film composed chiefly of carbon and formed in said fissure and on an area including said fissure and having in said fissure a gap of a

width narrower than said fissure, wherein said carbon film contains therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium of 5 mol% or less in terms of percentage to carbon.

24. (New) An image-forming apparatus comprising an electron source and an image forming member for effecting image formation by electrons emitted from said electron colliding against it, said electron source comprising a plurality of electron-emitting devices disposed on a substrate, and wirings connected to said electron-emitting devices, each electron-emitting device comprising a pair of device electrodes disposed on a substrate, an electrically conductive film connected to said pair of device electrodes and having a fissure between the pair of device electrodes, and a carbon film composed chiefly of carbon and formed in said fissure and on an area including said fissure and having in said fissure a gap of a width narrower than said fissure, wherein said carbon film contains therein one or more kinds of elements selected from the group of lithium, potassium, sodium, calcium, strontium and barium of 5 mol% or less in terms of the percentage to carbon.